



Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SOUTH DAKOTA, West

SDZ028>029 Central Black Hills - Southern Black Hills

8 TO 10 INCHES OF SNOW FELL

A FAST MOVING SHORTWAVE MOVED THROUGH THE REGION. FROM 4 TO 10 INCHES WERE REPORTED THROUGHOUT THE ENTIRE BLACK HILLS DURING A 24 HOUR PERIOD WITH THE GREATEST AMOUNTS (8 TO 10 INCHES) IN THE SOUTHERN AND CENTRAL BLACK HILLS.





February 1999 Time Local/ Path Length Path Width Number of Estimated Persons Damage

SOUTH DAKOTA, West

SDZ001>002-012>014-025>026-030>032-043-046>047-049

Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains -

Pennington Plains - Haakon - Jackson - Mellette - Todd - Tripp

03 0600MST High Wind (G60) 1900MST

This was a large scale synoptic wind event that stretched across the region. Strong winds were in the 35 to 45 mph range with gusts to over 70 mph from 7 am until sunset in portions of Western and South Central South Dakota.

SDZ025 Northern Foot Hills

> 2200MST 2230MST 0 0 High Wind (G54)

A cold front moving through the region channeled strong winds through the northern foothills. Strong winds lifted a 150 by 20 foot metal building off of its slab, up into the air and dropped it back to the ground. The building was home to more then 100 animals, from llamas to pigs to miniature ponies and chickens. Although some of the chickens were killed, the majority of the animals were unharmed. Surrounding observation sites reported winds gusts to 50 mph as the cold front moved through.

SDZ013>014-026-031 Meade Co. Plains - Ziebach - Central Foot Hills - Pennington Plains

> 10 High Wind (G55)

A deep low pressure system moved across South Dakota creating a tight pressure gradient over the western coounties. A strong cold front associated with this system moved eastward through the region and winds became very strong around noon, and then died down around sunset as the cold front and low pressure system moved into northeastern South Dakota.

SDZ001>002 **Harding - Perkins**

> 0800MST 1400MST Heavy Snow

SDZ001>002-013>014-032 Harding - Perkins - Meade Co. Plains - Ziebach - Haakon

1500MST 55K High Wind (G60)

An intense upper level low pressure system over Minnesota, combined with a Pacific cold front moving into the region, created strong winds and some heavy snowfall over portions of northwestern South Dakota. The heaviest amounts were in the two northernmost counties along the North Dakota border where up to a foot of snow fell. The heavy, wet snow added considerable weight to some of the power lines in those two counties, and when the wind picked up, there were 55 power poles blown over.

WYOMING, Northeast

WYZ054>058 Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

1900MST 1300MST 02 03 High Wind (G75)

A large scale storm system pushed into the region creating strong winds throughout all of Wyoming. The peak gust in Northeastern Wyoming was at Devils Tower which had an 86 mph gust.





March 1999 Time Local/ Path Length Path Number of Estimated Damage Width Persons **SOUTH DAKOTA, West** SDZ013-025>026-028-031 Meade Co. Plains - Northern Foot Hills - Central Foot Hills - Central Black Hills - Pennington Plains 0900MST A strong area of low pressure centered just south of the Black Hills produced heavy snowfall along the foothills. The areas in west Rapid City and the surrounding foothills received the heaviest snow amounts with 10 to 15 inches of snow reported. Most of the region reported between 6 to 12 inches of snowfall. Nearly 200 accidents occurred in the Rapid City area...but no significant injuries were reported. SDZ001-012>013-Harding - Butte - Meade Co. Plains - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Central Black Hills -024>026-028>032 Southern Black Hills - Custer Plains - Pennington Plains - Haakon 0000MST 2300MST Winter Storm A surface low pressure system just south of the Black Hills combined with an upper level short wave over southwestern South Dakota created some locally heavy snowfall across the region. Generally, amounts ranged from 6 to 10 inches. The highest amounts were in the foothills near Sturgis, SD where up to 18 inches were reported. SDZ001>002-012>014-Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains -Pennington Plains - Haakon - Jackson - Tripp 025>026-030>032-043-049 16 High Wind (G63) A surface low pressure system moving along the North and South Dakota border brought a strong cold front across the region. Winds briefly picked up behind the front with gusts to 72 mph. Two three hundred pound water tanks were blown across Highway 85 bear Belle Fourche, SD, but no major damage was reported with this frontal passage. WYOMING, Northeast Gillette - Moorcroft - Wyoming Black Hills WYZ054-056>057 05 1000MST 1900MST 0 **Heavy Snow** A surface low pressure system south of the Black Hills brought wrap around snowfall into northeastern Wyoming. The Gillette area had the most precipitation with up to 12 inches reported. Interstate 90 was closed from Gillette to Sheridan because of the snowfall and the rapid accumulations that occurred at times. WYZ054>058 Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston Winter Storm Surface low pressure just south of the Black Hills combined with an upper level short wave to create some areas of heavy snowfall. Snow wrapped around the storm system and left Northeastern Wyoming in a favorable position for upslope precipitation. Up to 10 inches of snow fell in some places across the region. Overall amounts were generally from 4 to 8 inches. WYZ054>055 Gillette - South Campbell

A strong cold front swept through northeastern Wyoming creating short lived strong winds. Winds gusted up to 65 mph as the front passed through and then they decreased within the next hour.

High Wind (G57)

1500MST





April 1999 Path Length (Miles) Time Local/ Path Width Number of Estimated Persons Damage **SOUTH DAKOTA, West** SDZ001>002-012>014-Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Black Hills 024>025-028 0000MST 1600MST 0 5K Winter Storm A strong low pressure system moved over the Rocky Mountains onto the Central Plains. The associated cold front brought 6 to12 inches of snow to portions of the Black Hills as well as areas in northwestern South Dakota. Some people near Sturgis were without power for three hours after power lines snapped from the the ice and gusty winds. SDZ001>002-025 Harding - Perkins - Northern Foot Hills 2200MST 1200MST 0 0 Winter Storm A storm that developed in Colorado moved out over the Central Plains and brought 6 to 8 inches of snow to areas in northwestern South Dakota. SDZ024 **Northern Black Hills** 09 10 Winter Storm A winter storm moving across the central plains created an upslope snowfall event for the Northern Black Hills. Snowfall amounts were generally 6 to 10 inches with 11 inches reported at Lead. WYOMING, Northeast WYZ054>057 Gillette - South Campbell - Moorcroft - Wyoming Black Hills 0000MST 1400MST 01 Winter Storm A strong low pressure system over the Rocky Mountains moved out over the Central Plains. The associated cold front brought 6 to 12 inches of snow over portions of northeastern Wyoming **WYZ054** Gillette 0 0

2000MST 1200MST Winter Storm

A storm that developed in Colorado moved out over the Central Plains bringing with it 6 inches of new snow to areas in northeastern





Time Path Path Number of Estimated Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SDZ001>002-012>014- 025>027-030>032- 041>044-046>047-049		-					s - Central Foot Hills - Southern Foot Hills - kson - Bennett - Mellette - Todd - Tripp				
	05 06	0800MST 1600MST			0	0	High Wind (G74)				
	A slow moving low pressure system moved across western South Dakota and deepened as it moved into the eastern portions of th state while high pressure pushed in over the Rocky Mountains. Very strong northwest winds developed in western South Dakota an continued for nearly 48 hours. Numerous businesses had large signs blown down and billboards on the interstate were broken at their bases. Airlines cancelled flights into and out of Rapid City due to the high winds. Numerous power outages were also reported due to trees falling across the power lines.										
Bennett County Martin	09	1700MST			0	0	Hail (1.75)				
Trinn County		1800MST									
Tripp County 12 NW Winner	09 Brief	1732MST Touchdown. Torna	0.1 ado path and wi	1 dth estimated	0	0	Tornado (F0)				
Tripp County											
6 NW Hamill		1745MST w barn had a portion r lines were snapped				•	Tornado (F0) ree branches were snapped off and ground wires fo				
Todd County 3 NE Parmelee	09 Drief	1812MST Touchdown. Torna	0.1	1	0	0	Tornado (F0)				
Mellette County 2 N White River	09	1825MST Touchdown. Torna	0.1	1	0	0	Tornado (F0)				
Mellette County 2 SW White River	09 Brief	1825MST Touchdown. Torna	0.1 ado path and wid	1 dth estimated	0	0	Tornado (F0)				
Todd County 8 W Mission	09 Brief	1842MST Touchdown. Torna	0.1 ado path and wi	1 dth estimated	0	0	Tornado (F0)				
Tripp County 4 E Winner	09	1920MST			0	0	Hail (1.75)				
Todd County Mission	09 Brief	1926MST Touchdown. Torna	0.1 ado path and wi	1 dth estimated	0	0	Tornado (F0)				
Todd County 4 SW Mission	09 Brief	1929MST Touchdown. Torna	0.1 ado path and wide	1 dth estimated	0	0	Tornado (F0)				
Mellette County Countywide	09 10	1930MST 0700MST			0	0	Flood				

1 foot of water over Highway 63 after 2-4 inches of rain fell over the region. Numerous other county roads had water covering then also.

Todd County

Countywide 09 1950MST 0 0 Flood

Numerous roads in the county were flooded over after 2 to 4 inches of rain fell. Several creeks were overflowing thier bank.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of sons Injured	Estimated Damage Property Crops	Character of Storm	May 1999
SOUTH DAKOTA, We	<u>est</u>								
Todd County Mission	09	1950MST			0	0		Hail (1.75)	
Todd County St Francis	09 Severa	2020MST			0	0		Hail (1.00)	
Pennington County Wall	09	2030MST			0	0		Hail (1.00)	
Tripp County Countywide							understorms dropped	Flood 2 to 4 inches of rain	in over the area.
	White	River at Oacoma re	eached 20.75	5 feetflood	stage is 15	feet.			
Pennington County 8 NE Hill City to Hill City	15	1540MST			0	0		Hail (1.00)	
Lawrence County 10 NW Spearfish to 11 NW Spearfish	15	1543MST 1550MST Fouchdown. Moved	1	10	0	0		Tornado (F0)	
Butte County 12 SW Belle Fourche to 9 SW Belle Fourche	15	1550MST 1553MST I in open countryr	1	10	0 ounty into E	0 Butte Coun	ıty	Tornado (F0)	
Pennington County 3 NW Hisega to Hisega	15	1600MST			0	0	•	Hail (0.75)	
Meade County Tilford	21 1" to 1 hail.	1330MST 1340MST 1.5" hailup to 6 ir	aches deep o	on Interstate	0 90. A 5 ca	1 r pile up le	eft one person injured	Hail (1.50) after several vehicles	slid through the
Meade County Ellsworth Afb	21	1505MST			0	0		Hail (1.75)	
Meade County Ellsworth Afb	21	1507MST 1516MST			0	0		Funnel Cloud	
Harding County Redig	21	1509MST			0	0		Hail (0.75)	
Pennington County Boxelder	21	1510MST			0	0		Hail (1.75)	
Pennington County Rapid City Arpt to Caputa	21 Severa	1510MST 1535MST al funnel clouds rep	orted		0	0		Funnel Cloud	
Custer County 5 N Dewey	21	1620MST			0	0		Hail (0.75)	
Pennington County 8 SW Hill City to Hill City	21	1645MST			0	0		Hail (0.75)	
Custer County 1 N Custer	22	0521MST			0	0		Hail (1.00)	





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of ons Injured	Estimated Damage Property Crops	Character of Storm	May 1999
SOUTH DAKOTA, V	<u>Vest</u>								
Custer County Fairburn	22	0555MST			0	0		Hail (1.00)	
Custer County 5 S Custer	22	0625MST			0	0		Hail (0.75)	
Shannon County 2 N Rockyford	22	0700MST			0	0		Hail (0.88)	
Tripp County Winner	22	0920MST			0	0		Hail (0.75)	
Tripp County 8 S Winner	22	0930MST 0940MST			0	0		Hail (1.00)	
Todd County Parmelee	22	1000MST			0	0		Hail (1.25)	
Lawrence County Lead	26	1347MST 1359MST			0	0		Hail (1.00)	
Meade County Sturgis	26	1442MST 1450MST			0	0		Hail (0.75)	
Ziebach County 5 SE Glad Vly	26	1630MST			0	0		Hail (0.75)	
WYOMING, Northea	<u>ast</u>								
WYZ054	Gillett 05	1200MST 1600MST		1. 1	0	0		High Wind (G52)	
	A slov	w moving low pr	essure system	moved to the	e east of the r	region and	created strong northy	vest winds for several l	nours.
Campbell County 10 W Wright	15	1308MST			0	0		Thunderstorm Wi	nd (G61)
Campbell County 10 N Wright	15	1315MST			0	0		Hail (1.75)	
Crook County 5 S Moorcroft	15	1415MST			0	0		Hail (1.75)	
Crook County 12 E Moorcroft	21	1445MST			0	0		Hail (1.75)	
Crook County 5 SW Sundance	21	1520MST			0	0		Hail (1.00)	
Weston County 14 SW Newcastle	21	1534MST			0	0		Hail (1.75)	
Weston County Osage	21	1555MST			0	0		Hail (1.00)	
Weston County Osage	21	1615MST			0	0		Hail (1.00)	





	Б.,	Time Local/	Path Length	Path Width	Numb Pers	sons	Estimated Damage	June 1999			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm			
SOUTH DAKOTA, W	<u>est</u>										
Pennington County 2 SW Keystone	02	1950MST			0	0		Hail (1.00)			
Meade County Ellsworth Afb	02	2053MST			0	0		Thunderstorm Wind (G59)			
Todd County 8 S Olsonville	04	0010MST			0	0		Hail (0.75)			
Fall River County 13 S Oelrichs	04	1656MST			0	0		Thunderstorm Wind (G61)			
Fall River County Edgemont	04 Strong	1705MST winds from thunde	erstorms blev	w over sever	0 al trees and	0 fences in	5K the community.	Thunderstorm Wind			
Shannon County 10 W Oglala	04	1730MST			0	0		Hail (1.75)			
Shannon County 1 E Slim Butte	04	1730MST			0	0		Hail (2.50)			
Shannon County 3 SSW Slim Butte to 3 NE Oglala	04	1730MST 1745MST	15	875	1	54	3.2M	Tornado (F2)			
3 ND Ografa	This was the first of two tornadoes that swept through the town of Oglala. Spotters and law enforcement reported that the tornado went up and down several times. It remained on the ground just prior to hitting Oglala and then dissipated as it moved to the northeast. There was one fatality with 54 people receiving medical care for injuries. A church and three of its surrounding buildings were destroyed, 22 mobile homes destroyed, 30 to 50 buildings damaged and a lot of hail damage to roofs and vehicles. M54MH										
Shannon County 2 W Oglala	04	1735MST			0	0		Hail (4.00)			
Shannon County 2 SW Oglala to	04	1740MST	4	400	0	0		Tornado (F2)			
2 NE Oglala		s the second tornac o and produced its			_	•		ne town. It was smaller then the first			
Shannon County Oglala	04	1745MST			0	0		Hail (1.75)			
Shannon County 3 N Pine Ridge		1810MST pile home was desi			0 Otherwise it	0 remained	20K I in rural areas and w	Tornado (F0) as short lived. Path width and length			
Shannon County 7 NE Oglala	04	1820MST			0	0		Hail (1.75)			
Shannon County 5 SW Kyle	04	1830MST			0	0		Hail (1.75)			
Shannon County 5 SW Kyle to	04	1830MST	9	75	0	0	50K	Tornado (F0)			
4 SE Kyle	1900MST Three mobile homes destroyed. This tornado moved into Jackson County before dissipating. Path width and length estimated from law enforcement report.										
Bennett County 5 S Martin	04 Weak	1845MST tornado that touche	0.5 ed down brief	10 fly. Path wid	0 th and leng	0 th estimate	ed from reports	Tornado (F0)			





Time Path Path Number of Estimated Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SOUTH DAKOTA, West

Jackson County											
10 SW Potato Creek to 5 S Potato Creek	04	1900MST 1915MST	5	75	0	0		Tornado (F0)			
	This to report.	-	Shannon C	County 5 mile	es southwe	est of Kyle.	Path width and le	ength estimated from law enforcement			
Jackson County											
Kadoka	04	1935MST			0	0		Hail (1.00)			
Tripp County Winner	04	2008MST			0	0	5K	Thunderstorm Wind			
		damage from a thund	lerstorm.	A convenience	ce store ro			vere down and several large trees were			
Ziebach County											
13 W Cherry Creek	04	2014MST			0	0		Thunderstorm Wind (G57)			
Bennett County Martin	05	1535MST			0	0		II 7 (0.00)			
Bennett County	03	15351/151			U	U		Hail (0.88)			
6 S Martin	05	1625MST	0.5	10	0	0		Tornado (F0)			
	Brief to	ouchdown. Path width	h and lengt	h estimated.							
Bennett County	0.5	15103.507	_								
2 W Swett to 3 SW Allen	05	1710MST 1720MST	5	550	0	0		Tornado (F0)			
	Width	and path length repor	ted by a lo	cal resident.							
Bennett County	05	1725MST	3	100	0	0		T I (FA)			
2 SW Allen to 2 NW Allen		1725MST 1735MST			U	U		Tornado (F0)			
	Width and path length reported by a local resident.										
Shannon County 8 SW Kyle	05	1730MST	0.5	10	0	0		Tornado (F0)			
55 W 11,10		ouchdown. Path width			v	Ü		Tornado (FO)			
Pennington County											
Keystone	05	1738MST			0	0		Hail (1.00)			
Shannon County 10 W Kyle	05	1810MST			0	0		II-9 (1.05)			
Shannon County	03	1010/0151			U	U		Hail (1.25)			
12 SW Kyle	05	1810MST 1815MST			0	0		Hail (1.25)			
Donnington County		1815MST									
Pennington County Rapid City	05	1819MST			0	0		Thunderstorm Wind (G56)			
Meade County								• •			
3 SE Piedmont	05	1827MST			0	0		Thunderstorm Wind (G52)			
Jackson County Interior	05	1855MST			0	0		Hail (0.75)			
Haakon County Philip	05	1900MST			0	0		Hail (1.00)			
Tripp County											
1 N Clearfield	05 Brief to	1935MST ouchdown. Path width	0.1 h and lengt	10 h estimated.	0	0	0	Tornado (F0)			
Ziebach County											
10 SW Red Scaffold	05	2030MST			0	0		Thunderstorm Wind (G61)			
	Estima	ted 70 mph wind gus	t. A mobil	e home roof	was damag	ged by the s	trong wind gust.				





June 1999 Time Local/ Standard Path Length (Miles) Number of Persons Killed Injured Estimated Damage erty Crops Path Width (Yards)

SOUTH DAKOTA, W	est				
Haakon County South Portion		2100MST 0700MST nches of rain at the Philip airport in less then 2 rous roads were closed because they were under		0 eral buildings at the airport ha	Flood d flooding problems. Sheriff reported
Jackson County North Portion		2200MST 1100MST al county roads were under water for several ho vashouts along the gravel roads.	0 urs after ho	0 eavy rainfall fell in the region.	Flood No major damage was reported other
Tripp County Ideal	07	1655MST	0	0	Hail (0.75)
Tripp County Ideal	07	1707MST	0	0	Hail (1.00)
Tripp County Ideal	07	1744MST 1750MST	0	0	Hail (1.75)
Custer County Pringle	07	1812MST	0	0	Hail (1.75)
Tripp County Colome	07	1840MST	0	0	Hail (1.00)
Lawrence County Lead	07 15,000	2012MST) flowering plants were destroyed in downtown	0 Lead. A	0 estaurant had one corner of its	Hail (2.00) roof damaged
Lawrence County Deadwood	07	2015MST	0	0	Hail (1.50)
Meade County Sturgis to 2 NE Sturgis	07	2034MST 2041MST	0	0	Hail (2.75)
Meade County Red Owl to Faith	07	2145MST 2200MST	0	0	Hail (0.75)
Ziebach County 13 E Glad Vly	07	2210MST	0	0	Hail (1.75)
Harding County Redig	08	1609MST	0	0	Hail (2.00)
Harding County 7 E Redig	08	1620MST	0	0	Hail (0.88)
Harding County 28 E Redig	08	1645MST	0	0	Hail (1.00)
Harding County 12 S Reva	08	1700MST	0	0	Hail (1.00)
Meade County Union Center	08	2327MST	0	0	Hail (1.00)
Butte County 22 NW Belle Fourche	09	0000MST	0	0	Hail (2.00)
Lawrence County Lead	09	0003MST	0	0	Hail (1.00)





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SOUTH DAKOTA, We	<u>est</u>										
Pennington County 2 SW Keystone	12	1540MST			0	0		Hail (0.88)			
Custer County 10 E Custer	12	1606MST			0	0		Hail (1.75)			
Custer County 1 W Hermosa	12	1620MST			0	0		Hail (1.00)			
Shannon County 5 N Kyle	12	1825MST			0	0		Thunderstorm W	ind (G52)		
Fall River County 11 W Hot Spgs	12	1838MST			0	0		Hail (1.75)			
Bennett County Martin	12	1943MST			0	0		Hail (1.00)			
Pennington County 1 W Rapid City Arpt to 7 E Rapid City Arpt	15	1340MST 1350MST			0	0		Funnel Cloud			
Custer County Countywide	18	1445MST 2300MST			0	0		Flood			
	Heavy rainfall flooded rural roads along with Highways 385 and 79, which had 3-4 feet of water over them.										
Harding County Camp Crook	18	1450MST			0	0		Hail (0.88)			
Pennington County 15 SW Rapid City	18	1530MST			0	0		Hail (1.00)			
Pennington County	10	1 < 403 #C/T			0		22017				
South Central Portion	severa area ai	l hundred feet of nd a few of them	railroad track washed out.	that was wa The cost of	shed out at repairs on th	a cost of \$ hese roads	6300,000. Local aut were around \$30,00	Flood Keystone. The 1880 H horities blocked off sev 00. The flood stage at below flood stage at 18	veral roads in the Camp Judson on		
Custer County East Portion	19	0030MST 0400MST			0	0		Flood			
								shifted downstream alo	ong Battle Creek.		
Butte County Belle Fourche	19	2140MST			0	0		Thunderstorm W	ind (G54)		
Meade County 13 NE Tilford to 13 NNE Tilford	20	1700MST			0	0		Hail (0.75)	· (- · · · ·)		
Harding County 21 NNW Buffalo to 25 N Buffalo	20	2114MST			0	0	4K	Thunderstorm W	ind		
20 14 Dundly	Power	company reporte	d 4 power pol	es blown ov	er.						
Harding County 2 NW Ladner	20	2138MST			0	0		Hail (1.75)			





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SOUTH DAKOTA, W	<u>/est</u>							
Harding County	••	44 453 FGFF						
1 SE Ladner	20	2145MST 2205MST			0	0		Hail (0.88)
Harding County 1 SE Ladner	20	2145MST 2205MST			0	0		Thunderstorm Wind (G61)
Harding County 2 E Ladner	20	2149MST 2200MST			0	0		Hail (1.00)
Harding County								
2 E Ladner to 2 SE Ladner	20	2149MST 2200MST	2	400	0	0	15K	Tornado (F1)
	Cattle		estroyed and a	a grain bin an	chored in c	oncrete wa	as picked up and thro	hrough a barbed wire fence into a pond. wn several yards. Storm path and width
Harding County								
2 E Ladner	20 Measi	2149MST ured wind speed.			0	0		Thunderstorm Wind (G91)
Meade County 2 N Sturgis to 1 N Sturgis	21	1340MST			0	0		Hail (0.88)
Meade County								
2 N Piedmont	22	1220MST			0	0		Hail (1.00)
Pennington County 2 NW Rochford	22	1235MST			0	0		Hail (0.75)
Pennington County 2 ENE Silver City	22	1258MST			0	0		Hail (0.88)
Meade County Ellsworth Afb	22	1345MST			0	0		Hail (0.75)
Pennington County Deerfield	22	1410MST			0	0		Hail (1.00)
Pennington County 15 WSW Rapid City	22	1440MST			0	0		Hail (0.88)
Perkins County Lemmon	25	1828MST			0	0		Hail (0.75)
Fall River County Ardmore	27	1530MST			0	0		Hail (0.75)
Lawrence County 9 SW Spearfish	27	1709MST			0	0		Thunderstorm Wind (G70)
Lawrence County 8 WNW Spearfish	27	1717MST			0	0		Hail (1.25)
Butte County 5 S Belle Fourche	27	1718MST 1730MST			0	0		Hail (0.75)
Lawrence County Lead	27	1724MST			0	0		Hail (0.75)
Lawrence County Spearfish Arpt	27	1724MST			0	0		Thunderstorm Wind (G54)



Number of

Estimated



June 1999

Path Length (Miles) Time Local/ Path Width Persons Damage **SOUTH DAKOTA, West Lawrence County** 6 E Spearfish to 8 E Spearfish 1730MST 50 0 0 27 2 Tornado (F1) The tornado knocked several trees into a home, destroyed a chicken coop and damaged a rental car which had a tree fall on it. Numerous trees around the property were also blown down. **Meade County** Sturgis 27 1732MST Hail (0.88) **Meade County** 4 SE Sturgis 27 1750MST 0 0 Hail (1.75) **Meade County** 13 E Sturgis 27 1810MST 0 0 Hail (2.75) **Meade County** 1 N Hereford 1830MST 1840MST 27 0 0 Hail (0.75) **Meade County** 3 SE Elm Spgs 27 1855MST 0 0 Hail (0.75) **Custer County** O 3 W Buffalo Gap 27 1930MST 0 Hail (1.75) **Custer County** Wind Cave 27 1930MST 0 Hail (1.00) **Custer County** Fairburn to Hermosa 29 1250MST 1350MST Flash Flood Water along French and Grace Coolidge Creeks rose rapidly after 3 to 4 inches of rain in less then an hour. Some vehicles in the Hermosa area had water up to the doors because local drainage systems could not keep up with the water. **Todd County** 7 S St Francis 0.1 10 0 0 Tornado (F0) Rain wrapped tornado that was short lived. **Todd County** 10 W St Francis 29 **Funnel Cloud** Two funnel clouds spotted at the same time by two separate observers **Todd County** 8 W St Francis 29 1422MST 0 Hail (0.75) **Todd County** 8 W St Francis to 6 W St Francis 29 1422MST 2.5 30 0 0 Tornado (F0) Spotters reported a rope type tornado that stayed in open country. **Todd County** 7 W Mission 29 1427MST 0 **Funnel Cloud** Funnel cloud lasted about five minutes. **Lawrence County** Spearfish 30 1325MST 0 Hail (0.75) **Shannon County** 1730MST 1740MST Slim Butte 100 0 Tornado (F0) Tornado reported by State Trooper.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	June 1999 Character of Storm
SOUTH DAKOTA, W	<u>'est</u>							
Mellette County White River	30	2300MST 2310MST			0	0		Hail (1.25)
Meade County Union Center	30	2320MST			0	0		Thunderstorm Wind (G52)
Meade County Red Owl	30	2330MST			0	0		Hail (1.00)
Meade County Red Owl	30 Wind	2330MST s estimated at 70 t	0 80 mph.		0	0		Thunderstorm Wind (G65)
Mellette County White River	30	2345MST			0	0		Hail (1.75)
WYOMING, Northea	<u>st</u>							
Weston County 4 E Four Corners	05	1330MST			0	0		Hail (1.00)
Crook County 1 SW Aladdin	05 Brief	1345MST touchdown. Path	0.1 width and leng	10 gth estimated	0	0	0	Tornado (F0)
Campbell County 30 SSE Gillette	05	1403MST			0	0		Hail (1.00)
Campbell County 5 N Rozet	05	1442MST			0	0		Hail (0.75)
Campbell County 22 SE Gillette	05	1455MST			0	0		Funnel Cloud
Weston County Four Corners	08	2344MST			0	0		Hail (0.75)
Crook County 5 W Moorcroft	12	1436MST			0	0		Hail (1.75)
Campbell County 22 W Wright to 13 SW Wright	12 Move	1445MST 1510MST ed over open range	12 eland. Spotter	400 s watched the	0 e tornado fo	0 r nearly 40	0 minutes before it dis	Tornado (F0)
Crook County Moorcroft	12 Wind	1502MST 1509MST speed estimated b	ny law enforce	ment at 60 to	0 280 mph	0		Thunderstorm Wind (G52)
Campbell County 15 SW Wright to 19 S Wright	12	1515MST 1549MST ado reformed and a	16	250	0	0		Tornado (F0)
Crook County 10 SW Devils Tower	12	1520MST			0	0		Hail (0.75)
Weston County Upton	12	1545MST			0	0		Thunderstorm Wind (G61)
Campbell County 10 SW Wright	12 Brief	1620MST touchdown. Torna	1 ado width and	30 length estim	0 ated.	0	0	Tornado (F0)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estima Dam Property	ated age Crops	Jui Character of Storm	ne 1999
Location	Date	Standard	(Willes)	(Tarus)	Killed	mjured	Property	Crops	Character of Storin	
WYOMING, Northea	<u>st</u>									
Weston County										
3 S Upton	15	1158MST			0	0			Funnel Cloud	
Campbell County										
20 W Wright	15	1822MST			0	0			Funnel Cloud	
	3 Funi	nel Clouds sighted	. Short lived.							
Campbell County										
15 SW Gillette	17	1712MST 1730MST	1	50	0	0	0		Tornado (F0)	
	Brief t	ouchdown. Torna	do width and	length estim	ated from re	eports.				
Campbell County										
2 SW Gillette	17	1715MST			0	0			Thunderstorm Wind (G	75)
Campbell County									· ·	,
10 N Wright	17	1820MST			0	0			Hail (1.75)	
Campbell County										
10 N Wright	17	1830MST	0.1	10	0	0	0		Tornado (F0)	
g	Brief t	ouchdown. Torna	do width and l	ength estima	ated.					
Campbell County										
20 WSW Gillette to 20 SSW Gillette	17	1900MST			0	0			Hail (1.75)	
20 SSW Gillette										
Campbell County										
5 N Rockypoint	19	2035MST			0	0			Hail (0.88)	
Campbell County										
24 SE Gillette to 24 E Gillette	27	1535MST			0	0			Hail (0.75)	
Crook County										
3 SE Aladdin	27	1700MST			0	0			Hail (0.88)	
	-				-	-			(0.00)	





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of ons Injured	Estimated Damage Property Crops	July 199 Character of Storm
SOUTH DAKOTA, V	<u>West</u>							
Tripp County Winner	01	0006MST			0	0		Hail (1.75)
Haakon County Milesville	01	0007MST			0	0		Hail (1.00)
Tripp County Winner	01	0042MST			0	0		Hail (1.00)
Tripp County 18 SE Winner	01	0059MST			0	0		Hail (0.88)
Todd County 7 S Olsonville	02 Spott	2127MST ers reported power	r lines blown	down and sev	0 veral cars we	0 ere damag	10K ed by fallen tree brar	Thunderstorm Wind aches
Tripp County Winner	02 Nine	2144MST power poles and s	several large t	rees were blo	0 wn down	0	10K	Thunderstorm Wind (G51)
Shannon County Pine Ridge	03	2018MST			0	0		Thunderstorm Wind (G52)
Shannon County Pine Ridge	03	2020MST			0	0		Hail (0.75)
Bennett County Allen	03 Publi	2115MST c report of a short	lived funnel	cloud.	0	0		Funnel Cloud
Bennett County Allen	03 A mo	2125MST obile home was blo	own over and	damaged. No	0 o estimate o	0 f wind spe	5K ed given.	Thunderstorm Wind
Custer County 4 E Custer	15	1830MST			0	0		Hail (0.75)
Meade County Ellsworth Afb	15	1915MST			0	0		Thunderstorm Wind (G61)
Shannon County Pine Ridge	15	2005MST			0	0		Thunderstorm Wind (G51)
Fall River County 8 S Hot Spgs	17 Wind	1515MST Is over 80 mph da	maged campii	ng areas arou	0 nd Angustor	0 a Reservo	ir.	Thunderstorm Wind (G70)
Fall River County 8 SE Hot Spgs	17	1540MST			0	0		Hail (0.75)
Fall River County 12 SE Hot Spgs	17 Wind	1600MST	at 60 mph.		0	0		Thunderstorm Wind (G52)
Butte County Vale	19	1111MST			0	0		Thunderstorm Wind (G52)
Butte County 3 SW Vale	19 Door	1130MST s torn off a barn.	Two horses w	vere killed and	0 d another inj	0 ured.	5K	Thunderstorm Wind (G52)
Butte County 8 E Belle Fourche	19 Trees	1201MST	and sheds and	d barns had d	0 amage.	0	1K	Thunderstorm Wind





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimated Damage Property Crops	July 1999 Character of Storm
SOUTH DAKOTA, W	<u>est</u>							
Meade County Hereford	19	1220MST			0	0		Hail (0.88)
Pennington County 5 W Hill City to Hill City	20	1450MST 1459MST			0	0		Hail (1.00)
Custer County 6 N Custer	20	1530MST 1545MST			0	0		Hail (0.75)
Custer County 1 S Hermosa	24	1330MST			0	0		Hail (1.00)
Mellette County 11 S Cedar Butte	24 Winds	1640MST swere estimated	at 60 to 70 mpl	h by spotter.	0	0		Thunderstorm Wind (G52)
Todd County 2 SW Parmelee	24	1700MST			0	0		Hail (0.75)
Todd County Rosebud	24	1726MST 1735MST			0	0		Hail (0.75)
Jackson County Interior	27	1415MST			0	0		Hail (0.75)
Mellette County 1 N Cedar Butte	27 Severa	1530MST al large trees were	e snapped in ha	alf.	0	0	1K	Thunderstorm Wind
Jackson County 3 SW Potato Creek	27	1555MST			0	0		Hail (0.75)
Mellette County 11 S Cedar Butte	27 Winds	1555MST s were estimated	at 60 to 70 mpl	h.	0	0		Thunderstorm Wind (G52)
WYOMING, Northeas	<u>t</u>							
Campbell County 8 SE Gillette	07	1545MST			0	0		Hail (0.75)
Crook County 25 NW Hulett	07	1635MST			0	0		Thunderstorm Wind (G52)
Crook County 21 N Hulett	07	1700MST			0	0		Hail (1.00)
Weston County 10 W Upton	15	1515MST			0	0		Hail (0.75)
Campbell County 20 SE Gillette	15	1525MST			0	0		Hail (1.00)
Crook County 14 SW Sundance	15	1615MST			0	0		Hail (1.00)
Weston County 6 N Upton	15 Hail w	1615MST vas one foot deep	along the Croo	ok and West	0 on county lin	0 ae.		Hail (1.00)
Weston County 15 W Four Corners	15	1640MST			0	0		Thunderstorm Wind (G52)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estin Dar Property	nated nage Crops	Character of Storm	July 1999
WYOMING, Norther		Standard	(Miles)	(Tarus)	Killed	Injured	Troperty	Сторя	Character of Storm	
Crook County Devils Tower	15	1715MST			0	0			Hail (0.88)	
Weston County 5 SW Newcastle	17 Brief	1424MST touchdown. Path	0.1 width and leng	10 gth estimated	0	0			Tornado (F0)	
Weston County 4 SW Upton	20	1907MST			0	0			Hail (0.75)	
Weston County 16 SW Upton	20	2000MST			0	0			Hail (0.75)	
Campbell County Countywide		1700MST 1700MST es were started the			0 o lightning	0 striking r	angeland ar	nd hay bale	Lightning s. The largest fire re	ached 300 acres
Campbell County Echeta	21	1715MST			0	0			Thunderstorm W	ind (G66)





Location	Date	Time Path Local/ Length Standard (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	August 1999 Character of Storm
SOUTH DAKOTA, V	<u>Vest</u>						
Meade County 3 SE Piedmont	06	1905MST 1912MST		0	0		Thunderstorm Wind (G61)
Meade County 9 E Piedmont	06	1915MST		0	0		Hail (1.00)
Meade County Ellsworth Afb	06	1918MST 1930MST		0	0		Thunderstorm Wind (G77)
Pennington County Boxelder	06	1920MST 1930MST		0	0		Thunderstorm Wind (G65)
Meade County Ellsworth Afb	06 Measu	1925MST ared on the northwest runway v	vind sensor.	0	0		Thunderstorm Wind (G99)
Meade County Ellsworth Afb	06 Measu	1929MST ared on the southeast runway w	vind sensor.	0	0		Thunderstorm Wind (G99)

The first report of high winds was southeast of Piedmont with gusts of 65 to 70 mph estimated by a National Weather Service employee. Damage in that area included several downed trees and levelled gardens. As the storm moved east, large hail was reported. The first wind gust at Ellsworth AFB was 89 mph at 1918 MST on the northwest end of the runway. By 1925 MST, sustained winds were over 50 mph for nearly 10 minutes and the peak gust was 114 mph. The sensor on the southeast end of the runway, 2.5 miles away, recorded a wind gust of 114 mph at 1929 MST. The damage on the base included several large trees blown over and snapped in half and roof damage to base housing units. A few tents set up on the taxiways for an air show were blown around, but not significantly damaged. A survey by base meteorologists indicated the main downburst winds hit over open prairie surrounding the runway, where there are no trees or structures. Also between 1920 and 1930 MST, a meteorology student estimated winds between 70 and 80 mph at Box Elder, where gardens were levelled and wooden fences and roofs were damaged.

Custer County Central Portion

07 1201MST 1400MST 0 115K

Flash Flood

Nearly stationary thunderstorms produced from 3 to 7 inches of rainfall in the French Creek basin. This water inundated French Creek which flows through Custer and considerable damage occurred to county roads and portions of the city of Custer. Over one dozen evacuations were ordered. One major result of the flooding was the contamination of the waste treatment plant which took in 2.9 million gallons of water in 48 hours, and it can normally handle just 500,000 gallons of water a day. The newly completed city baseball park was also completely flooded. Between the city of Custer and the state highway department, damage estimates to streets, bridges, highways and buildings was approximately \$115,000. There has been no estimate so far of damages to private property, but numerous homes had up to 3 to 4 inches of water in their basements.

Lawrence County Cheyenne Crossing	11	1255MST	0	0	Hail (0.88)
Lawrence County 4 SW Lead	11	1303MST	0	0	Hail (0.88)
Lawrence County 5 SW Nemo	11	1355MST 1420MST	0	0	Hail (1.00)

Hail was in drifted up to a foot deep along portions of Highway 385.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	per of sons Injured	Estim Dan Property	ated nage Crops	August 1999 Character of Storm
SOUTH DAKOTA, W									
Pennington County 2 NE Silver City	11	1403MST 1407MST			0	0			Hail (0.88)
Pennington County 3 SW Onhson Siding	11	1427MST			0	0			Hail (1.00)
Pennington County Onhson Siding	11	1435MST			0	0			Hail (0.75)
Pennington County 5 SW Rapid City	11	1503MST 1509MST			0	0			Hail (1.00)
Harding County 5 NW Buffalo	11	1915MST			0	0			Hail (1.50)
Todd County Parmelee	and w		e was indirec	tly hit by th	e lightning				Lightning of him. He was knocked to the grounded that there were no entrance or exi
Perkins County Lemmon	11	2020MST			0	0			Hail (1.50)
Perkins County Lemmon	11	2030MST			0	0			Hail (1.75)
Perkins County 19 SW Lemmon to 1 NE Lemmon	11	2030MST			0	0	500K	1M	Thunderstorm Wind (G70)
	A combination of large hail and high winds in northern Perkins county resulted in nearly total losses in crops, and significant damage to vehicles and buildings in the Lemmon area. Newspaper reports stated golfball sized hail fell for 45 minutes in the southwest portion of Lemmon. The Perkins County Agricultural Extension Agent estimated around 25,000 acres of corn, sunflowers, small grain and rangeland were damaged to the point where they were considered total losses. He also estimated winds of around 80 mph in the Lemmon areas. 5 to 6 inches of rain also fell, which caused minor flooding problems in about 5 percent of the homes and businesses in Lemmon. Over 600 insurance claims have been filed so far and losses may total over 1.5 million dollars according to several insurance agency reports.								

Lawrence County 8 W Spearfish	11	2105MST	0	0		Hail (0.75)
Butte County 4 S Belle Fourche	11	2123MST	0	0		Hail (1.00)
Perkins County 8 NNW Uata	11 Sever	2300MST ral large trees were blown over on ranch p	0 property of a coo	0 perative ob	1K oserver.	Thunderstorm Wind
Tripp County Ideal	20	1605MST 1610MST	0	0		Hail (0.75)
Pennington County Hisega	21	1220MST	0	0		Hail (1.00)
Butte County Vale	27 The d	1252MST	0	0		Thunderstorm Wind (G57)





		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage	August 1999
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
SOUTH DAKOTA, V	<u>West</u>							
Jackson County 6 E Kadoka	27	1330MST			0	0		Thunderstorm Wind (G52)
Lawrence County Deadwood	29	1206MST			0	0		Hail (0.75)
Lawrence County 2 N Deadwood	29	1225MST 1245MST			0	0		Hail (1.00)
Lawrence County 5 SE Deadwood	29	1245MST			0	0		Hail (0.88)
Jackson County Interior	29	1615MST			0	0		Hail (1.75)
Jackson County Interior	29	1615MST			0	0		Thunderstorm Wind (G52)
Jackson County 1 N Wanblee	29	1705MST			0	0		Hail (0.75)
Jackson County Wanblee	29	1712MST 1722MST			0	0		Hail (1.00)
Jackson County Longvalley	29	1750MST			0	0		Hail (1.75)
Mellette County Norris	29	1825MST			0	0		Hail (1.00)
Tripp County 3 SW Ideal	29	2240MST			0	0		Hail (1.75)
WYOMING, Norther	ast							
Crook County 5 W Beulah	06	1728MST			0	0		Hail (1.00)
Campbell County 12 S Gillette	11	1904MST			0	0		Thunderstorm Wind (G52)
Campbell County 15 SE Belle Ayr	11	1910MST			0	0		Hail (1.50)
Campbell County 15 SSE Gillette	11	1924MST			0	0		Funnel Cloud
Campbell County 6 S Rozet	11 Winde	1945MST ows were broken at	a spotters ho	ome.	0	0	0	Hail (1.00)
Crook County Moorcroft		2000MST / houses had hail der was totaled by ha		ly broken wi	0 indows and c	0 lamaged :	20K siding. Two police v	Hail (1.75) ehicles had moderate hail damage and
Crook County Moorcroft	11	2000MST			0	0		Thunderstorm Wind (G52)
Crook County 5 E Moorcroft	11	2005MST			0	0		Hail (2.00)
Crook County 15 E Moorcroft	11	2016MST			0	0		Hail (1.75)





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

Path Path Number of Estimated Damage
Damage
(Yards) Killed Injured Property Crops Character of Storm

WYOMING, Northeast

Crook County

4 NE Sundance 28 1945MST 0 0 5K Thunderstorm Wind

Power poles and outdoor advertising signs along Interstate 90 were blown down.





		Time Local/	Path	Path Width	Numl	per of sons		nated	September 1999
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	nage Crops	Character of Storm
SOUTH DAKOTA, W	<u>'est</u>								
Ziebach County									
Dupree	11	0132MST			0	0			Hail (0.75)
SDZ013-032	Meade	Co. Plains - Haa	kon						
	25	1550MST 1658MST			0	0			High Wind (G54)
	A stro	ng cold front swep	t through the	region. Win	ds gusted o	over 50 kts	s for 15 to 3	0 minutes	before decreasing again.
Ziebach County 13 W Cherry Creek	25	1707MST			0	0			Thunderstorm Wind (G56)
Lawrence County									()
8 W Spearfish	26	1310MST 1312MST			0	0			Hail (0.75)





Time Path Path Number of Estimated October 1999
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SOUTH DAKOTA, West

SDZ001>002-014 Harding - Perkins - Ziebach

Six to twelve inches of snow fell in a narrow band across the southern half of Harding and Perkins Counties and northern Ziebach County. Hundreds of trees that still had leaves on them had large branches broken off by the heavy, wet snow.

SDZ013>014-031>032 Meade Co. Plains - Ziebach - Pennington Plains - Haakon

27 0943MST 0 0 High Wind (G59)

SDZ001>002-012>014- Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains -

025>026-030>032 Pennington Plains - Haakon

31 1730MST 0 0 High Wind (G62)

A strong cold front moved through the region. Two semi-trailers were flipped over by the high wind gusts on Interstate 90 near Kadoka. Power lines in northeastern Meade County were blown down. The sparks from these lines ignited a fire which burned 15,000 acres of rangeland. It covered an area from 8 miles west of Faith, SD to 12 miles southeast of Faith, SD. 300 tons of hay were destroyed as well as several vacant outbuildings, fencing and corrals. Flames were reported to be as high as 40 feet at the head of the fire.





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SOUTH DAKOTA, West

SDZ001>002-013>014-031 Harding - Perkins - Meade Co. Plains - Ziebach - Pennington Plains

01 0030MST 0 0 High Wind (G56) 1200MST

A strong cold front caused sustained winds over 40 mph. Buffalo, South Dakota had sustained winds over 40 mph for 11 hours.

SDZ001-012-024>025 Harding - Butte - Northern Black Hills - Northern Foot Hills

18 0001MST 0 0 Heavy Snow 1500MST

A storm system brought 6 to 10 inches of snow in portions of the Black Hills and northwestern South Dakota.

SDZ001-012>013-030>032 Harding - Butte - Meade Co. Plains - Custer Plains - Pennington Plains - Haakon

18 1230MST 0 0 High Wind (G59)

A storm system brought high winds to the region. Winds were sustained over 40 mph for a few hours with the peak wind speed of

68 mph recorded at Ellsworth Air Force Base.

WYOMING, Northeast

WYZ057 Wyoming Black Hills

18 0001MST 1500MST 0 0 Heavy Snow

A storm system brought 6 to 10 inches of snow to portions of the Bear Lodge Mountains.





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

SOUTH DAKOTA, West

SDZ001-013-031 Harding - Meade Co. Plains - Pennington Plains

13 1958MST 0 0 High Wind (G50) 2104MST

SDZ001>002-012>014- Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - 025-026-030-032-043-046 Pappington Plains - Harkon - Juckson - Molletto - Tripp

025>026-030>032-043-046- Pennington Plains - Haakon - Jackson - Mellette - Tripp 049

18 0344MST 0 0 High Wind (G59)

A strong cold front moved through the region. There were 11 hours where sustained winds at Buffalo, SD were above 50 mph. The rest of the region had several hours of sustained winds over 40 mph with gusts to near 60 mph.